

FIG. 1A

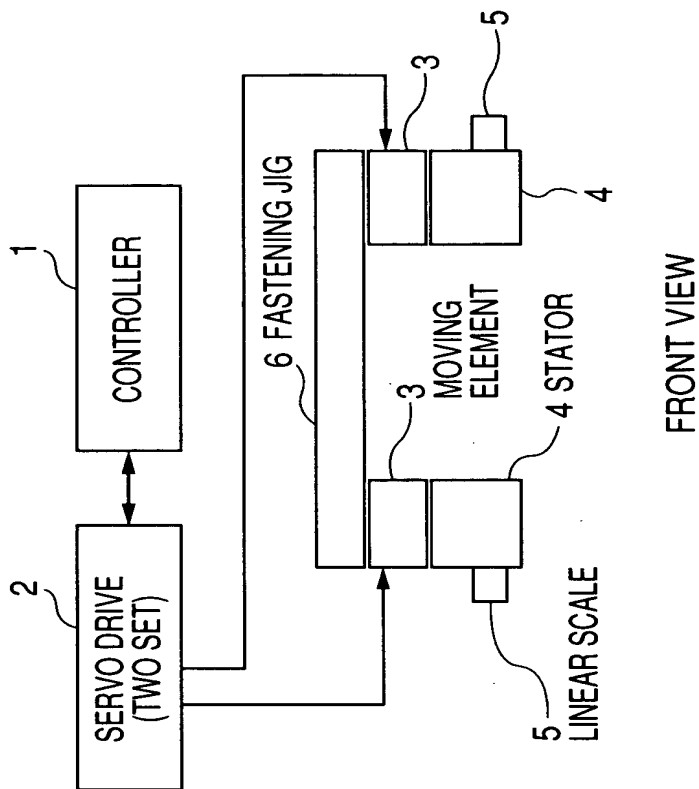


FIG. 1B

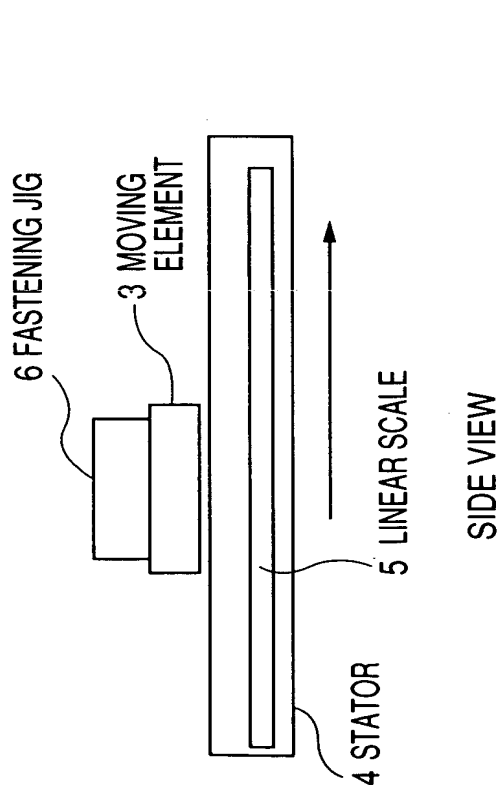
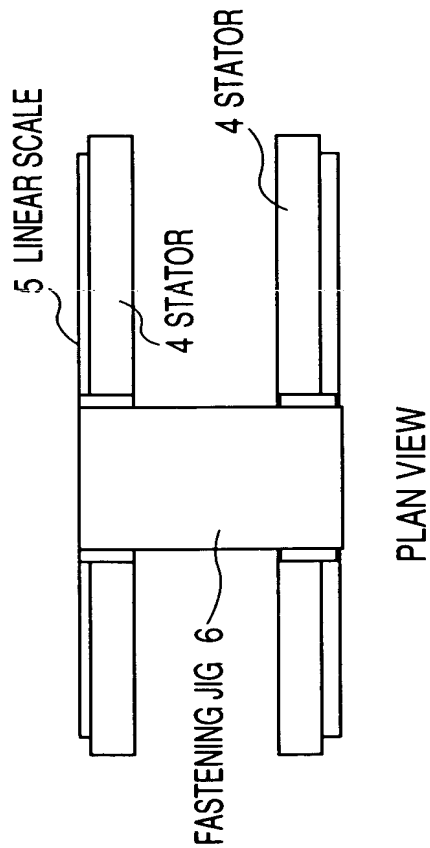


FIG. 1C



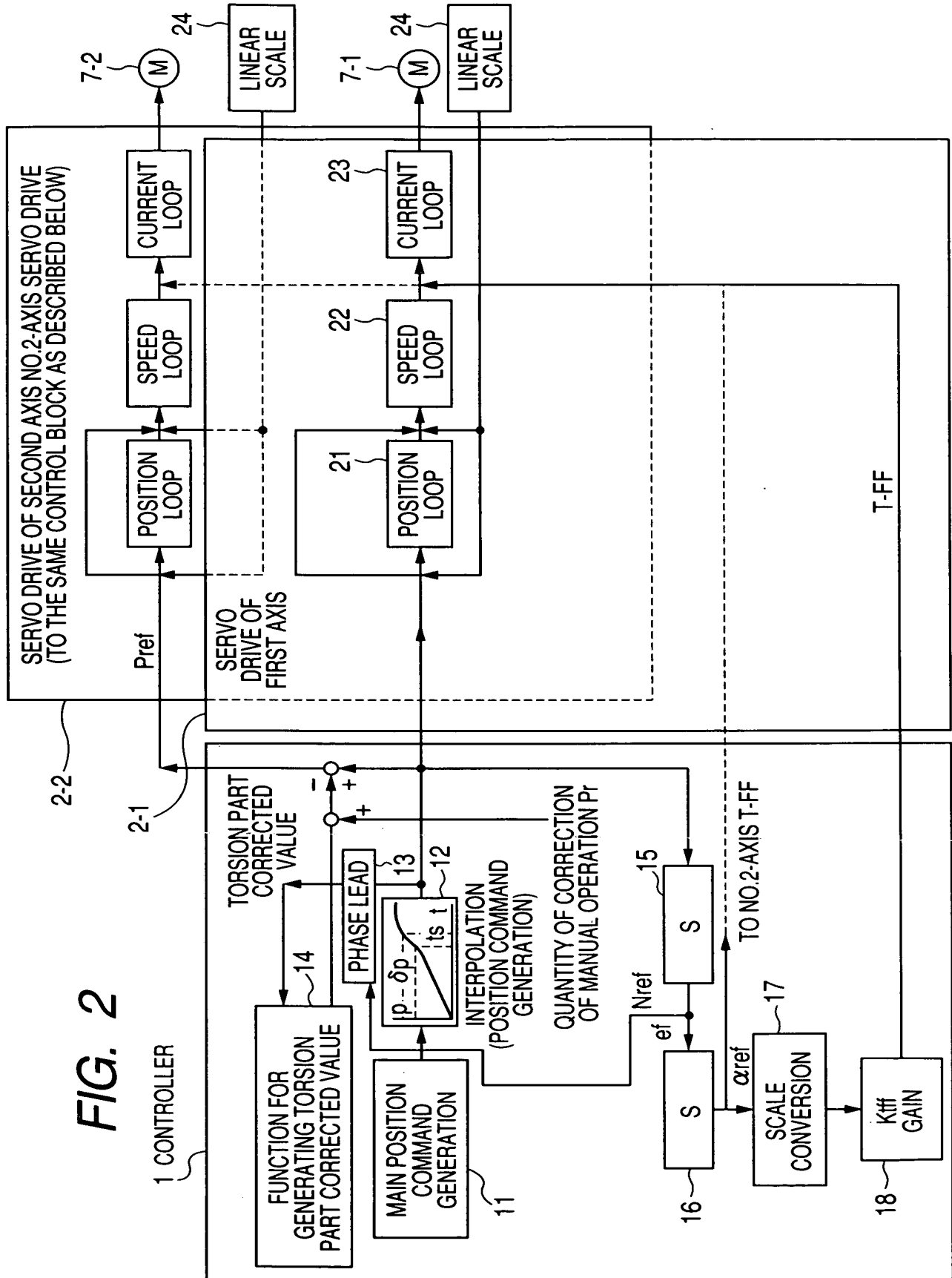


FIG. 3

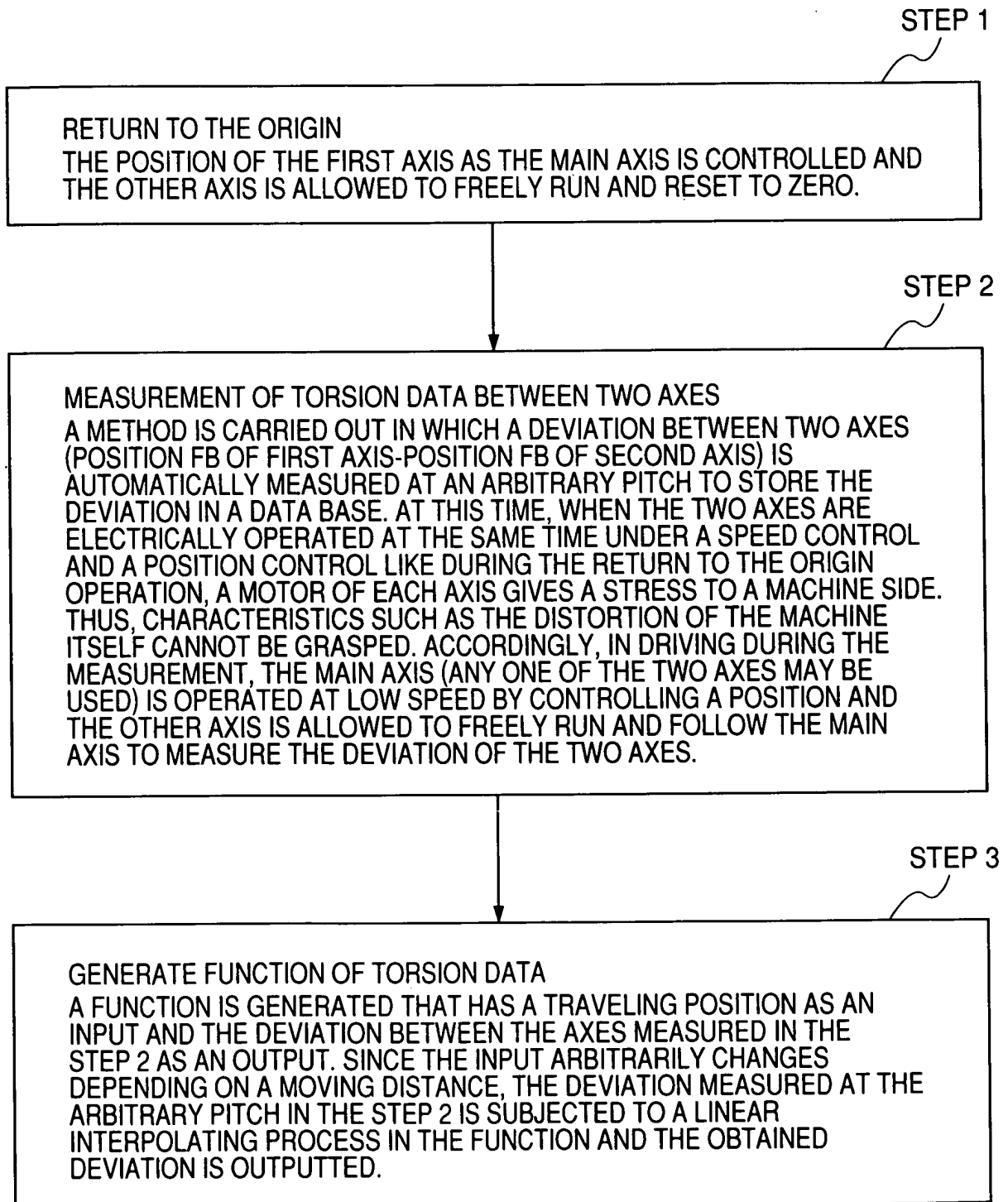
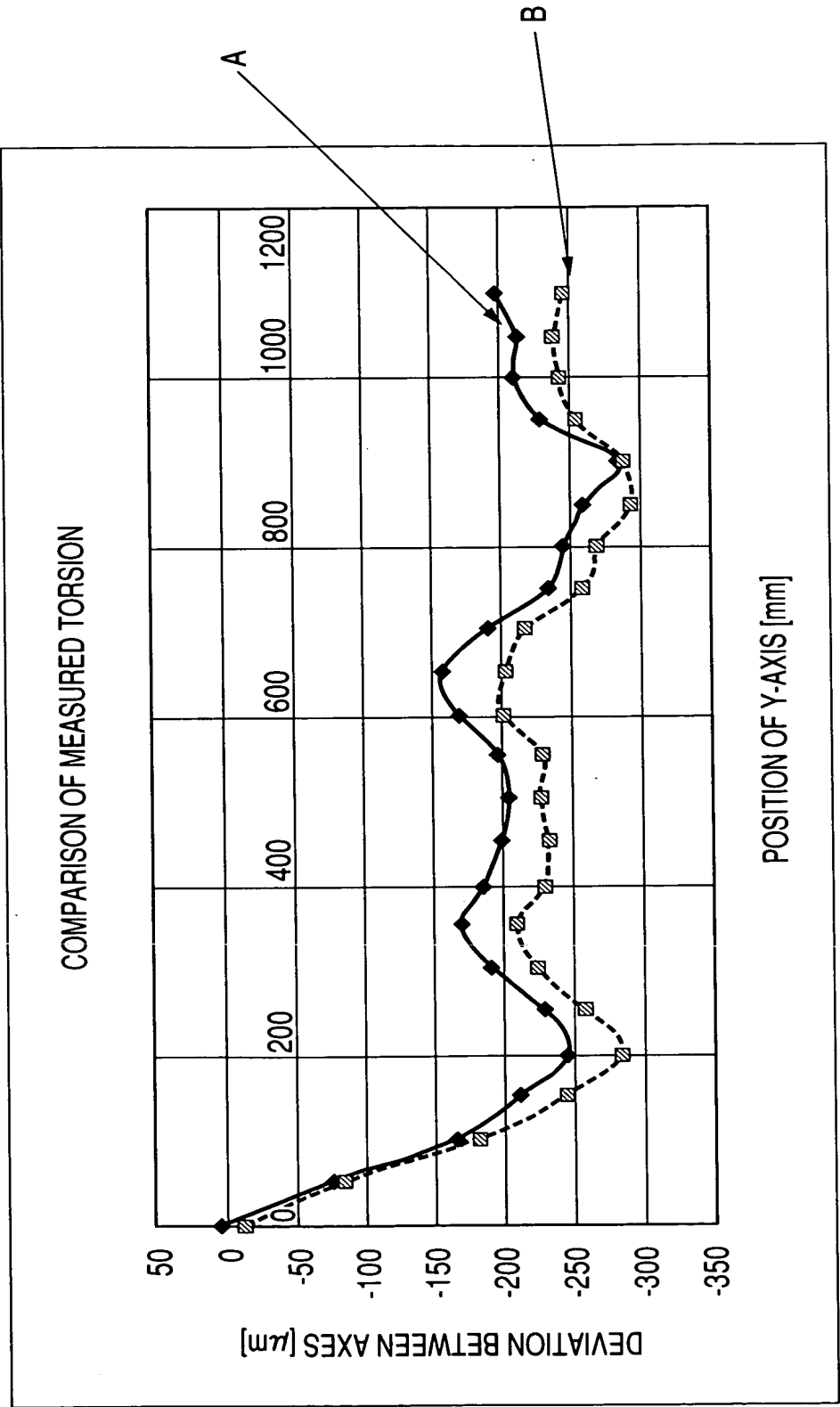


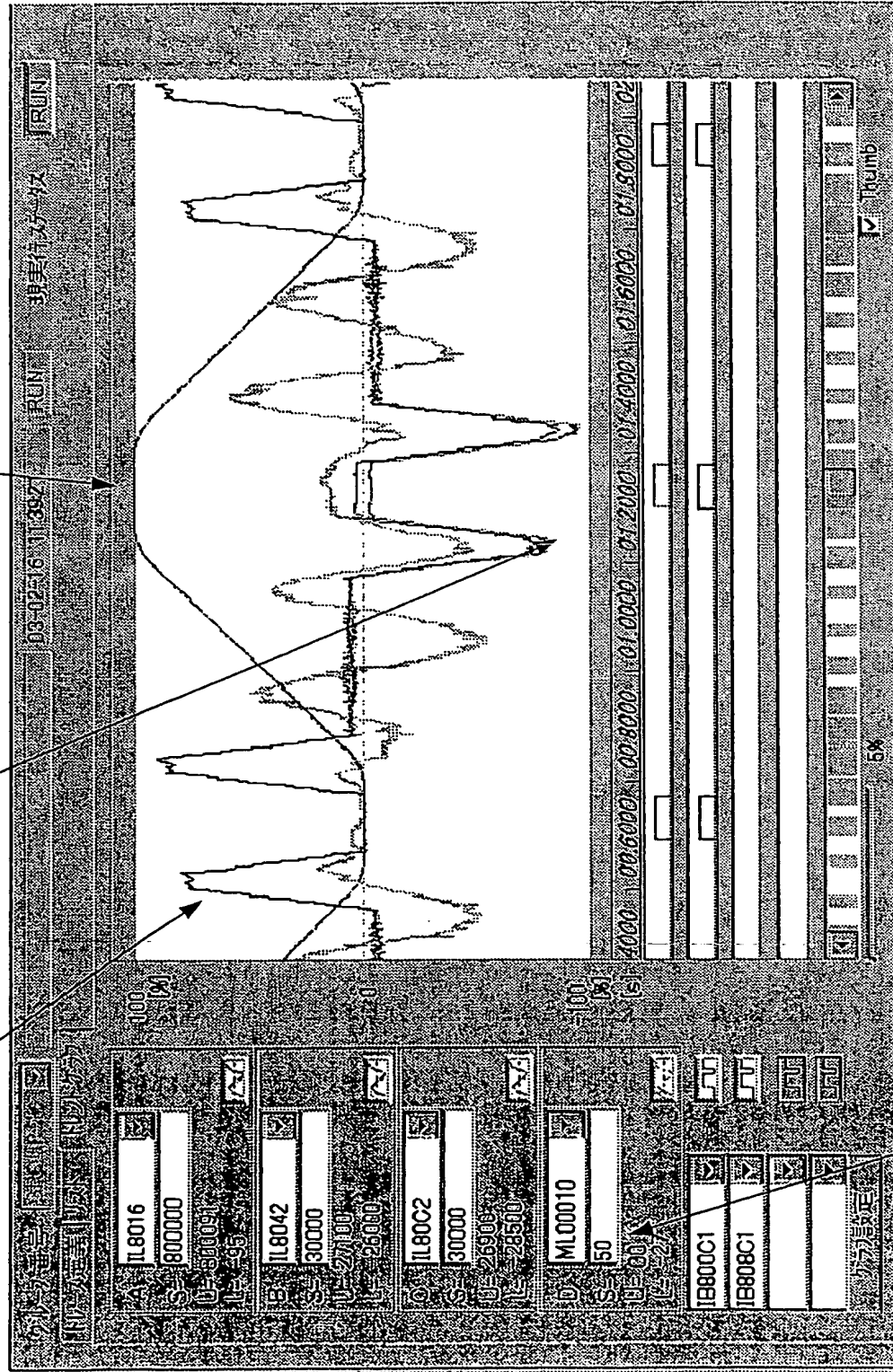
FIG. 4



A: MEASURED VALUE BY LASER DISPLACEMENT GAUGE
B: MEASURED VALUE BY CONTROLLER

FIG. 5

2. MAIN TORQUE COMMAND
3. TORQUE COMMAND OF CORRECTING SIDE
1. MAIN POSITION COMMAND



4. DEVIATION BETWEEN TWO AXES (MAXIMUM VALUE OF 30μm)

FIG. 7

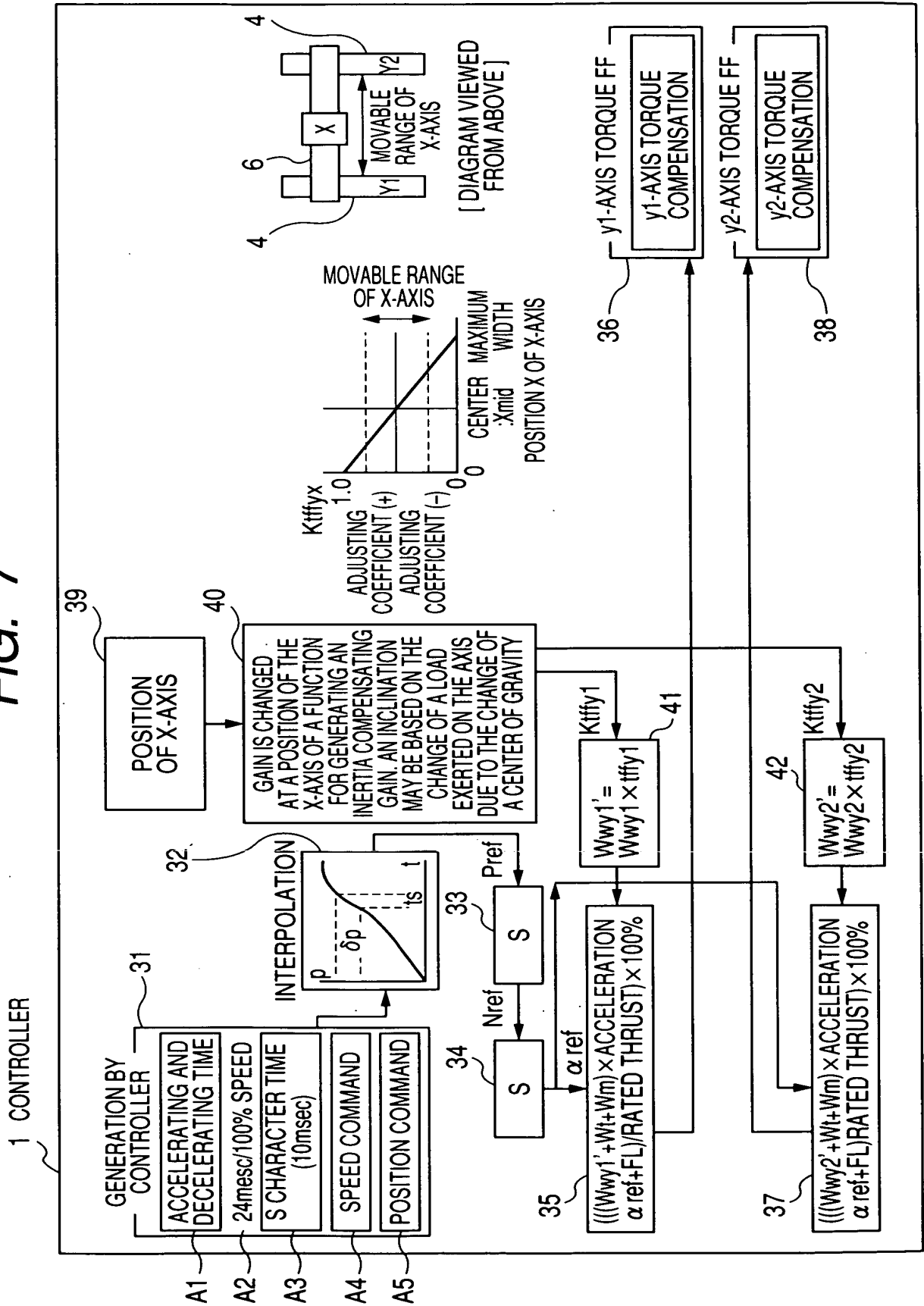


FIG. 8

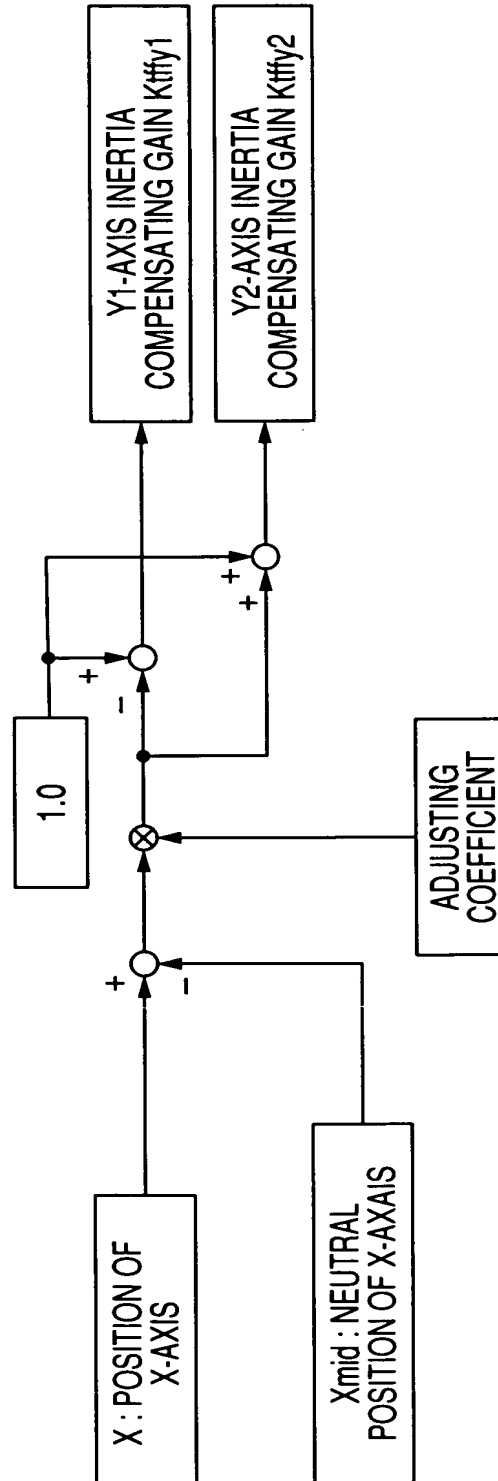
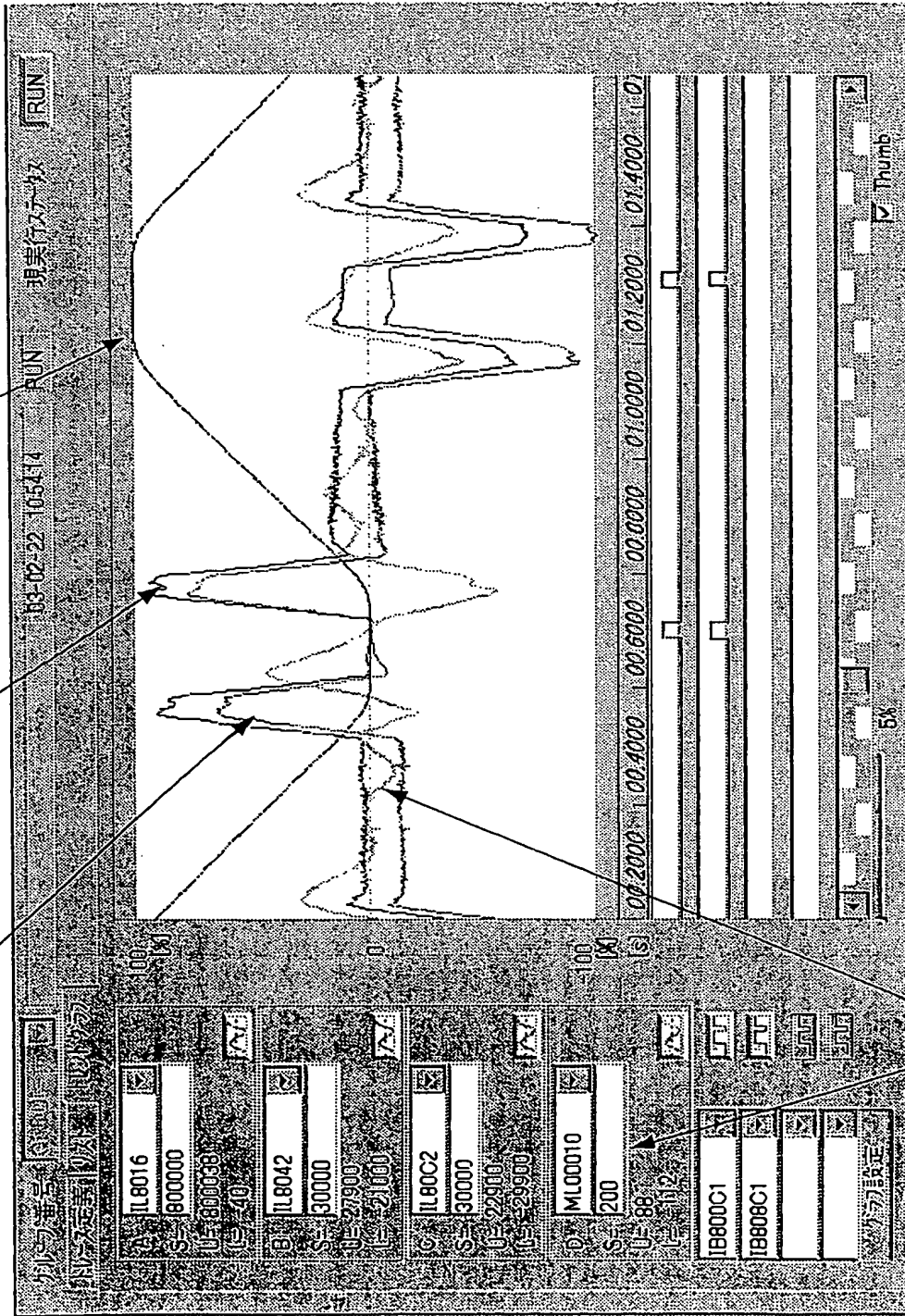


FIG. 9

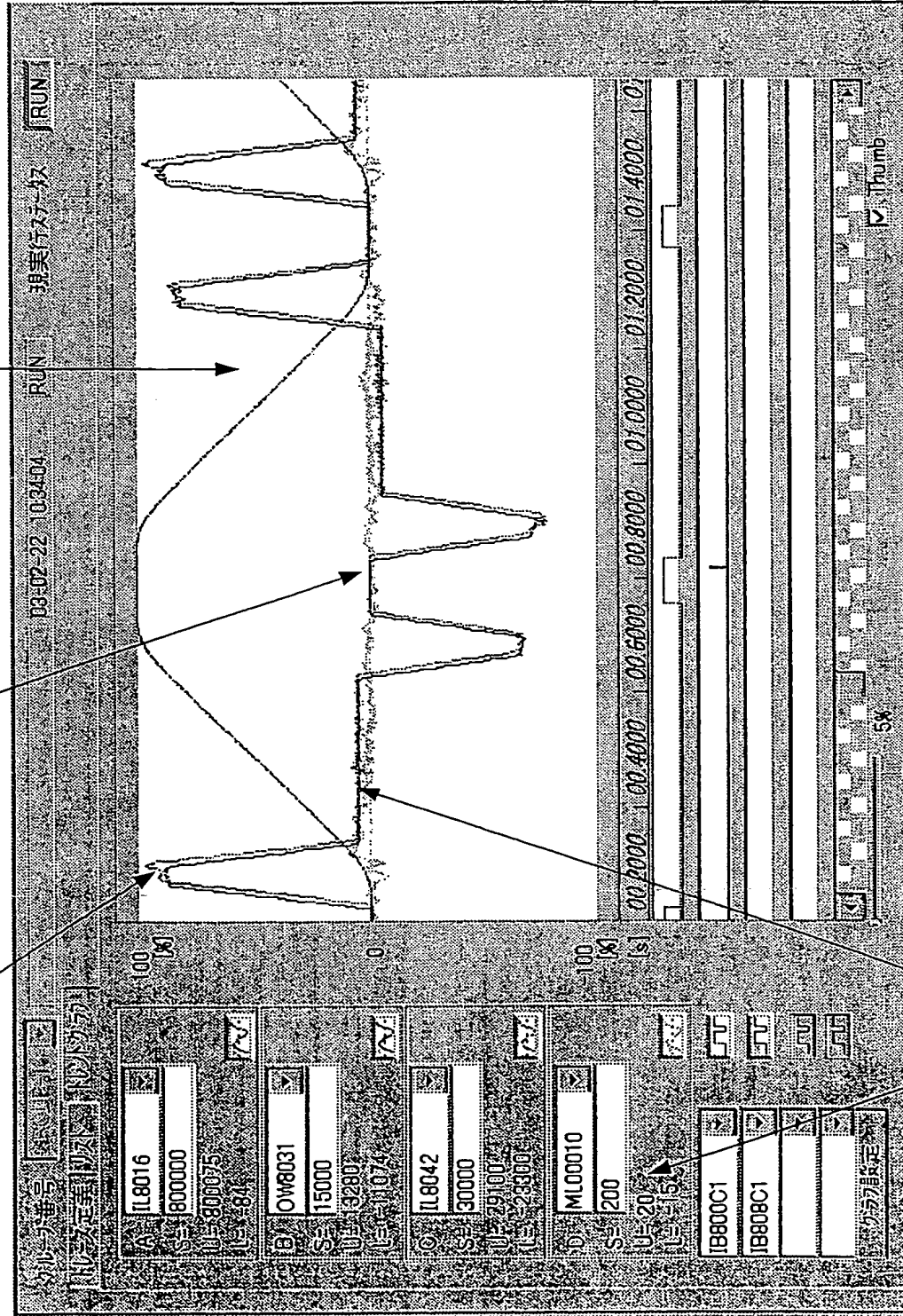
2. TORQUE FF OF Y1 SIDE
3. ACTUAL TORQUE COMMAND OF Y1 SIDE
1. MAIN POSITION COMMAND



4. DEVIATION BETWEEN TWO AXES (MAXIMUM VALUE OF 112μm)

FIG. 10

3. ACTUAL TORQUE COMMAND OF Y1 SIDE
2. TORQUE FF OF Y1 SIDE
1. MAIN POSITION COMMAND



4. DEVIATION BETWEEN TWO AXES (MAXIMUM VALUE OF 20 μ m)